



Docket No.: 1110-0339PUS1

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Toshihiko KAKIUCHI

Application No.: 10/561,274

Filed: December 19, 2005

For: COMPOSITION FOR PREVENTING AND

TREATING VARICOSE VEINS OF LOWER

EXTREMITIES

Confirmation No.:

Art Unit: N/A

Examiner: Not Yet Assigned

LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Subsequent to the filing of the above-identified application on December 19, 2005, attached hereto is an English translation of the International Preliminary Report on Patentability issued by the International Bureau on behalf of the International Searching Authority. Please make this document of record for the above-identified application

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or to credit any overpayment to Deposit Account No. 02-2448 for any

Application No.: 10/561,274 Docket No.: 1110-0339PUS1

additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Dated: June 8, 2006

Respectfully submitted,

Gerald M. Murphy, Jr.

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Attachment(s) PCT/IB/338,PCT/IB/373,PCT/ISA/237

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

WATANABE, Mochitoshi
Hayakawa-tonakai Bldg. 3F, 12-5, Iwamoto-cho 2-chome,
Chiyoda-ku, Tokyo
1010032
JAPON
MAY 11 2006

Date of mailing (day/month/year)
04 May 2006 (04.05.2006)

Applicant's or agent's file reference W-3585PCT

IMPORTANT NOTIFICATION

International application No. PCT/JP2004/008944

International filing date (day/month/year)
18 June 2004 (18.06.2004)

Applicant

MOCHIDA PHARMACEUTICAL CO., LTD. et al

1. Transmittal of the translation to the applicant.

100	The International Bureau transmits herewith a copy of the English translation of the international preliminary report o patentability (Chapter I).
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Yoshiko Kuwahara

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 90 90

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference W-3585PCT	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2004/008944	International filing date (day/month/year) 18 June 2004 (18.06,2004)	Priority date (day/month/year) 20 June 2003 (20.06.2003)	
International Patent Classification (8t See relevant Information in Form I	h edition unless older edition indicated) PCT/ISA/237		
Applicant MOCHIDA PHARMACEUTICAL C	:O., LTD.		

1.	This international proliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).			
<u>2</u> .	This REPORT consists of a total of 6 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.			
3.	This report contains indication	s relating to the following items:		
	Box No. I	Basis of the report		
	Box No. Π	Priority		
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	Box No. IV	Lack of unity of invention		
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	Box No. VI	Certain documents eited		
	Box No. VII	Certain defects in the international application		
	Box No. VIII	Certain observations on the International application		
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority		

	Date of issuance of this report 24 April 2006 (24.04.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Yoshiko Kuwahara
Facsimile No. +41 22 740 14 35	Telephone No. +41 22 338 90 90

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

The property of the control of the c	INTERNATIO	ONAL SEARCHII	NG AUTHOR	ITY		'VS,
Applicant's or agent's file reference W-3585PCT International application No. PCT/JP2004/008944 International filing date (dat/mouth/year) BR . 06. 2004 PRiority date (dat/mouth/year) ZO. 06. 2003 International Patenal Classification (IPC) or both national classification and IPC Applicant MOCHTDA PHARMACEUTICAL CO., LTD. 1. This opinion condains indications relating to the following items: Box No. 1 Basis of the opinion Box No. 1 Priority Box No. 1 Priority Box No. 1 Priority Box No. 1 Non-establishment of opinion with regard to novelty, inventive step and industrial applicability inclusions and explanations application to novelty. Inventive step or industrial applicability inclusions and explanations application on the international application Box No. 1V Lock of unity of Invention Box No. VI Certain defects in the international application Certain observations on the international application 2. FURTHR ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of it international Searching Authority ("IPEA.") except that this does not apply where the applicant chooses an Authority this international Searching Authority will not be so considered. If this opinion is a grounded above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of For PCT/ISA/220. Same and mailing address of the ISA/JP Authorized officer	ro:		•			PCT TON
Date of mailing (day/month/year)						ritten opinion of the
Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below					•	(PCT Rule 43bis.1)
W-3585PCT		<u> </u>				
International application No. PCT/JP2004/008944 International Finding date (day/mouth/year) 18.06.2004 International Patent Classification (IPC) or both national classification and IPC Applicant MOCHTDA PHARMACEUTICAL CO., LTD. 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. II Priority Box No. IV Lock of unity of invention Box No. IV Lock of unity of invention Box No. VI Certain detects in the international application Box No. VI Certain detects in the international application Box No. VII Certain detects in the international application 2. FURTHER ACTION If a domand for international preliminary examination is made, this opinion will be considered to be a written opinion this international Searching Authority (PIPEA') except that this does not apply where the applicant chooses an Authority will not be so considered. If this opinion is, at growided above, considered to be a written opinion of the pIPEA, the applicant is invited to submit to the IPEA Written reply logaliser, where appropriate, with amendments, before the expiration of 2 months from the date of mailing of For PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. Name and mailing address of the ISA/JP Authorized officer	1	_	ce		FOR FURTHER	
Description Patent Classification (IPC) or both national classification and IPC				International filing date	(daylmonthlynar)	
Applicant MOCHIDA PHARMACEUTICAL CO., LTD. 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion			944	1	in in the interest of the inte	1
Box No. II Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain defects in the international application Box No. VII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of it international Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority of than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions this international Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of For PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. Name and mailing address of the ISA/IP Authorized officer	Applicant					
Box No. II Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain defects in the international application Box No. VII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of it international Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority of than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions this international Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of For PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. Name and mailing address of the ISA/IP Authorized officer	<u></u>					
For further details, see notes to Form PCT/ISA/220. Name and moiling address of the ISA/JP Authorized officer	2. FUF	Box No. II Box No. III Box No. III Box No. IV Box No. VI Box No. VII Box No. VIII RTHER ACTION demand for interrational Preliminant this one to be the International Search is opinion is, as prepared to the control of the co	Basis of the Priority Non-establis Lack of unit Reasoned strapplicability Certain docu Certain defe Certain obse mational prelim ry Examining A IPEA and the hing Authority ovided above, where approp the expiration	opinion chment of opinion with re- y of Invention atement under Rule 43bis. citations and explanation aments cited cts in the international approachors on the internation althority ("IPEA") excepthosen IPEA has notified will not be so considered considered to be a writte relate, with amendments, of 22 months from the pr	gard to novelty, invent A(a)(i) with regard to a supporting such state plication and application ande, this opinion will that this does not application the International Burton opinion of the IPEA before the expiration	the considered to be a written opinion of the ply where the applicant chooses an Authority other eau under Rule 66.1b/s(b) that written opinions of the applicant is invited to submit to the IPEA at of 3 months from the date of mailing of Form
Factiville No.	Name and mo	lling address of the	ISA/JP		Authorized officer	
1003110101101	Facsimile No.				Telephone No.	

International application No.

PCT/JP2004/008944 Box No. I Basis of this opinion With regard to the language, this opinion has been established on the basis of the International application in the language in which it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)). With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: type of material a sequence listing table(s) related to the sequence listing format of material In written format in computer readable form c. time of filing/fornishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. Additional comments:

International application No.
PCT/JP2004/008944

Box No. I	Non-establishment of opini	on with regard to novelty, inventive step and industrial applicability
	ons whether the claimed invention a have not been examined in respect of:	appears to be novel, to involve an inventive step (to be non obvious), or to be industrially
ГП	the entire international application	
	claims Nos. 6	
becaus		
	the said international application, or trelate to the following subject matter	he said claims Nos. 6 which does not require an international preliminary examination (specify):
	Claim 6 pertains to meth-	ods for treatment of the human body by therapy.
	the description, claims or drawings (have so unclear that no meaningful opin	ulleate particular elements below) or said claims Nos. nion could be formed (specify):
	the claims, or said claims Nos. by the description that no meaningful	opinion could be formed.
\boxtimes	no international search report has been	n established for said claims Nos. 6
	the nucleotide and/or amino acid sequinstructions in that:	nence listing does not comply with the standard provided for in Annex C of the Administrative
	the written form	has not been furnished
	the computer readable form	does not comply with the standard has not been furnished does not comply with the standard
	the tables related to the nucleotide ar technical requirements provided for in	ad/or amino acid sequence listing, if in computer readable form only, do not comply with the Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further details	nits.

International application No.
PCT/JP2004/008944

Bos			ule 43bis.1(a)(i) with regard to novelly, inventive step or inclustrial applicability; pporting such statement	
1.	Statement			
	Novelty (N)	Claims		YES
		Claims	1-5	NO
	Inventive step (IS)	Claims		YES
		Claims	1-5	МО
1	Industrial applicability (IA)	Claims	1-5	YES
		Claims		NO

2. Citations and explanations:

The following documents appear in the ISR.

Document I/JP 2002-539138 A

Document 2/JP 6-298642 A

Document 3/JP 7-25816 A

Document 4/WO 2001/84961 A2

Document 5/Nanzando, Igaku Daijien, (Gokaban) Dai 18 Han, Nanzanko, 1998, p. 981

Document 6/JP 2000-502081 A

Document 7/JP 4-226915 A

Document 8/JP 2000-510006 A

(1) Novelty/Inventive Step of Claims 1 and 2/Documents 1-3

Documents 1-3 describe food products and cosmetics containing icosapentate and derivatives thereof.

(2) Novelty/Inventive Step of Claims 3-5/Documents 4-6

Document 4 describes a therapeutic agent for varicose veins containing icosapentate and derivatives thereof such as (tri) glyceride, and varicose veins in the legs are the predominant type of varicose veins as described in documents 5 and 6.

Consequently, the invention of the present application is identical to that described in document 4.

(3) Inventive Step of Claims 3-5/Documents 2-4 and 6-8

Documents 4 and 7 describe inhibition of (vascular epithelial) inflammation by icosapentate, and documents 6 and 8 describe inflammation as a causal factor of varicose veins and valve incompetence.

Further, from documents 2-4, icosapentate and derivatives thereof such as the ethyl ester thereof are acknowledged to possess the same pharmacological activity.

(Continued)

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Supplemental Box
In case the space in any of the preceding boxes is not sufficient. Continuation of: Box ${f V}$
Consequently, based on the descriptions of documents 2-4 and 6-8, use of a compound that inhibits inflammation with icosapentate or the ethyl ester thereof for the prevention/treatment of varicose veins in the legs would be obvious to a person skilled in the art.
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